

Question 3: Two Stimuli**7 points**

A (Point 1)	Identify the scale of analysis used for Finland's political divisions in Map 2. Acceptable identification: A1. Local scale (e.g., city, town, rural municipality) or subnational scale.	1 point
B (Point 2)	Define geometric boundaries as shown in Map 1. Examples of acceptable responses may include the following: - B1. Border lines on a map (two-dimensional plane) that are straight, angled, and/or curved to form a geometric shape (e.g., straight line, square, rectangle, circle, other polygons). - B2. A boundary or border drawn based on lines of latitude and longitude, a grid system, and/or a township and range system (baselines and meridians). - B3. Boundary lines drawn without regard to the physical or cultural landscape.	1 point
C (Point 3)	Describe one function of internal boundaries. Examples of acceptable responses may include the following: - C1. Internal boundaries define the limits of sovereignty or government control between one subnational region and another. - C2. Internal boundaries delimit or unify different types of subnational regions (e.g., voting districts, states, provinces, territories, special administrative regions, autonomous zones). - C3. Internal boundaries can unify or separate distinct ethnic, cultural, or national groups. - C4. Internal boundaries can delineate, divide, or fragment zones of public infrastructure and/or local government (e.g., water districts, school districts, voting districts). - C5. Internal boundaries can reflect, preserve, or reduce cultural, linguistic, or historical identities. - C6. Internal boundaries can prevent, resolve, or exacerbate conflicts. - C7. Internal boundaries can facilitate or hinder the collection or analysis of data. - C8. Internal boundaries can facilitate or hinder the management, protection, or distribution of natural resources or ecosystems.	1 point

D (Point 4)	Explain how the spatial organization of a country such as Canada is affected by a federal system of governance. Examples of acceptable responses may include the following: - D1. Federal systems of governance affect the spatial organization of a country by creating locally based, dispersed power centers (e.g., subnational state or provincial capitals). - D2. Countries with a federal system of governance are typically organized into subnational units (e.g., autonomous regions, semiautonomous regions) and/or have regional capitals that may help reduce centrifugal forces and/or limit ethnic separatism. - D3. Federal systems tend to divide large amounts of land area into subnational divisions that may be difficult to govern from a centralized or single capital. - D4. Federal systems tend to divide multicultural countries into subnational divisions based on cultural differences (e.g., ethnic, religious, and/or linguistic diversity) that may be difficult to govern from a centralized or single capital.	1 point
E (Point 5)	Explain how the supranational organization shown in Map 2 may limit the actions of Finland as a member state. Examples of acceptable responses may include the following: - E1. The EU may enact international laws or policies that limit the economic actions of Finland or other member states (e.g., reducing or eliminating trade barriers, introducing a common currency, regulating industry). - E2. The EU may implement international laws or policies that limit the political actions of Finland or other member states (e.g., requiring common border policies, observing elections, sharing a common foreign policy). - E3. By joining the EU, Finland has agreed to allow the EU government to make laws and regulations on behalf of Finland and the other member states.	1 point
F (Point 6)	Describe one characteristic of a cultural landscape that may reflect cultural beliefs and identities. Examples of acceptable responses may include the following: - F1. Art, music, toponyms, clothing, architecture, and/or evidence of sequent occupance may indicate elements of a culture or cultures. - F2. Religion, language, social institutions, and/or systems of governance may be based on a culture or cultures. - F3. Land use, land survey patterns, agriculture, resource use (e.g., hunting, fishing, crafts), and/or trade may indicate the practices of a culture or cultures. - F4. Foods, social interactions, holidays, and/or festivals are based on or have elements of a culture or cultures. - F5. Attitudes towards ethnicity or gender (e.g., the role of women in the workforce) may help shape the use of space in a given society.	1 point

G (Point 7)	Explain how communication technologies may affect the cultural patterns of indigenous languages. Examples of acceptable responses may include the following: - G1. Communication technologies (e.g., the Internet) may encourage members of indigenous communities to adopt more commonly used languages (e.g., English), resulting in indigenous language loss. - G2. Language loss may occur due to cultural convergence, which is accelerated by the use of communication technologies. - G3. Communication technologies may increase the availability of indigenous language resources (e.g., via websites, apps, social media), resulting in language preservation. - G4. Communication technologies may be used to increase awareness of indigenous identity issues, which may result in language preservation. - G5. Limited access or cultural resistance (e.g., reliance on oral tradition) to communication technologies can restrict or prevent significant changes in the cultural patterns of indigenous languages.	1 point
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Question 2: One Stimulus**7 points**

(A)	Identify ONE type of boundary shown on the map. Accept one of the following: - A1. Political boundary (e.g., state, district, county) - A2. Physical or natural boundary (e.g., the Potomac River) - A3. Geometric boundary (e.g., District of Columbia, Arlington County) - A4. Relict boundary (e.g., Arlington County was once part of the District of Columbia) - A5. Superimposed boundary (e.g., District of Columbia) - A6. Consequent boundary (e.g., Potomac River between the District of Columbia and Virginia) - A7. Antecedent boundary (e.g., colonial-era boundaries) - A8. Subsequent boundary (e.g., District of Columbia carved out of already existing Maryland and/or Virginia)	1 point
(B)	Describe ONE site characteristic of Washington, D.C., shown on the map. Accept one of the following: - B1. Washington, D.C., is located along the Potomac River and/or the Anacostia River. - B2. Washington, D.C., is at the confluence or intersection of the Potomac River and the Anacostia River. - B3. Washington, D.C., is at the intersection of the coastal plain and the Piedmont (foothills) or on the fall line. - B4. Washington, D.C., is located in an area with a tidal estuary, a peninsula, freshwater streams, wetlands, fertile soils, low-lying areas, and/or tidal flats.	1 point
(C)	Explain how political power is spatially distributed within a federal system of governance. Accept one of the following: - C1. Power is dispersed or shared between the central, sub-national, and/or local governments. - C2. Most federal systems have capital districts (e.g., Washington, D.C., Brasília) or locations (e.g., courts, military bases) where some government functions are centralized and also sub-national (state, provincial, departmental) capitals where local or regional political functions are dispersed.	1 point

- (D) Explain ONE way suburban sprawl is likely to negatively affect environmental sustainability in metropolitan areas. 1 point**

Accept one of the following:

- D1. Development related to sprawl (e.g., construction, transportation, utilities) can lead to increased air or water pollution.
- D2. Land cover change related to sprawl (e.g., deforestation) can lead to the loss or fragmentation of habitats, water pollution, and/or decreased biodiversity.
- D3. Expansion of transportation networks related to sprawl can lead to more pollution and/or warmer climates (e.g., traffic, congestion, urban heat islands, inefficient energy use).
- D4. Development related to sprawl can inhibit the use of land for local food production, open space, conservation, greenbelts, or preservation efforts.

- (E) Describe ONE way transportation-oriented development, such as expanding a Metrorail line, may promote urban sustainability. 1 point**

Accept one of the following:

- E1. By promoting walkability, livability, more efficient land use (e.g., fewer roadways, reduction in impermeable surfaces), and/or reductions in pollution.
- E2. By reducing the number of cars, resulting in decreased air and/or noise pollution.
- E3. By reducing the ecological footprint (e.g., reduced carbon footprint, reduced energy use) of the city.
- E4. Heavily trafficked and/or accessible transit stops may become places of mixed-use development.
- E5. Additional transit stops can reduce commuting distances or travel times to work and/or to other service locations.
- E6. Commuting can be more economically sustainable than car travel (e.g., cost of car ownership, fuel, maintenance, insurance, parking).

- (F) Explain how regional transportation networks led to the development of edge cities. 1 point**

Accept one of the following:

- F1. Transportation enabled commercial land use to decentralize (move away) from city centers.
- F2. Edge cities formed near major highway intersections or transit stations because those developments needed to be accessible to workers and/or consumers.
- F3. By providing access to services or office locations for the people who live, work, and/or shop there.
- F4. Transportation provides access to lower-cost land away from the city center (bid rent theory).

- (G) Explain how the geographic fragmentation of local governments could present a challenge to the Washington, D.C., metropolitan area's ability to construct a new Metrorail line. 1 point**

Accept one of the following:

- G1. Construction could be challenging because it would involve multiple governments to fund, plan, zone, and/or cooperate.
- G2. Local governments could disagree with the federal government about where to construct a new Metro line.
- G3. Construction could be challenging because parts of the new Metro line might not fall clearly under the jurisdiction of a specific government.
- G4. Having many competing ideas or authorities could make the planning process inefficient and/or make it difficult to determine accountability.
- G5. Local governments could disagree on how to share the costs of construction and/or operational costs of the rail system.
- G6. Local governments could disagree on the location of new stations because development around new Metro stations is a source of tax revenue and/or economic development.

Total for question 2: 7 points